| **Actor** | **Actor's Goal(what the actor intends to accomplish)** | **Use Case name** |
| --- | --- | --- |
| Orderer | To add a menu item with options to cart | A-UC1 |
| Orderer | To view and edit/remove items in the cart | A-UC2 |
| Orderer | Modify the quantity of the item in cart | A-UC3 |
| Orderer | Remove items in the cart | A-UC4 |
| Orderer | Order pizza | A-UC5 |
| Orderer | See the own order history | A-UC6 |
| Orderer | See the detail of one order | A-UC7 |
| Orderer | cancle the order | A-UC8 |

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| Use Case A-UC-1 | | | AddMenuToCart |
| Related Requirements | | | REQ-1, REQ-2, REQ-3, REQ-4, REQ-5, REQ-7, REQ-13 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | To add a menu item with options to cart |
| Participating Actors | | | Cart, Authenticator |
| Preconditions | | | At least there is more than one menu in the system database. |
| Postconditions | | | Selected item is added to cart |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Orderer accesses main page | |
| <- | 2. | System shows the list of menus to orderer. | |
| -> | 3. | Orderer selects menu in the list. | |
| <- | 4. | System redirects to detail page of the selected menu. | |
| -> | 5. | Orderer selects size, toppings and other options. | |
| <- | 6. | System recalculates and displays the menu price according to the options selected. | |
| -> | 7. | Orderer clicks “Add to cart” button | |
| <- | 8. | System asks if the orderer is logged in to Authenticator | |
| <- | 9. | System requests to Cart to add an item to cart from data source according to the menu and options selected | |
| <- | 10. | System asks the orderer if they want to go to cart | |
| -> | 11. | Orderer responds with “Go to cart” | |
| <- | 12. | System redirects to cart page | |
| Flow of Events for Extensions (Alternate Scenarios): | | | |
| 11a. Orderer responds with “Do not go to cart” | | | |
| <- | 1. | System keeps the current page | |

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| Use Case A-UC-2 | | | | ManageCart |
| Related Requirements | | | | REQ-3, REQ-8, REQ-9, REQ-14, REQ-16, REQ-17, REQ-18, REQ-21, REQ-26, REQ-27, REQ-28 |
| Initiating Actor | | | | Orderer |
| Actor’s Goal | | | | To View and edit/remove items in the cart |
| Participating Actors | | | | Cart, Authenticator |
| Preconditions | | | | - |
| Postconditions | | | | Apply operations for items, and move pages if needed |
| Flow of Events for Main Success Scenario: | | | | |
| -> | 1. | Orderer accesses cart page | | |
| <- | 2. | System asks if the orderer is logged in to Authenticator | | |
| <- | 3. | System requests to Cart to get list of items in orderer’s cart from data source | | |
| <- | 4. | System displays all items, total price, “Order” button | | |
| -> | 5. | Orderer does some actions for (a)viewing detail information of the item, (b)modifying quantity of the item, (c)removing the item from list, (d) deciding to order | | |
| Flow of Events for Extensions(Alternate Scenarios): | | | | |
| 4a. There is no item in the cart | | | | |
| <- | 1. | System displays message that there is no item in the cart  and disables order action | | |
| 4b. It is outside of opening hours | | | | |
| <- | 1. | System shows message that order is not available now, informs opening hours,  and disable order action | | |
| 5a. Orderer’s action is for viewing details of the item | | | | |
| <- | 1. | System redirects to detail page of the selected menu. | | |
| 5b. Orderer’s action is for modifying quantity of the item | | | | |
|  | 1. | Include Edit ModifyCartItemQuantity (UC-3) | | |
| 5c. Orderer’s action is for removing the item from list | | | | |
|  | 1. | Include RemoveCartItem (UC-4) | | |
| 5d. Orderer’s action is for deciding to order | | | | |
|  | 1. | Include Order (UC-5) | | |
|  | 1a. Orderer is not logged in | | | |
|  | <- | 1. | System notifies some messages about continuing as a non-member | |

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| Use Case A-UC-3 | | | ModifyCartItemQuantity |
| Related Requirements, | | | REQ-26, REQ-27 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | Modify the quantity of the item in cart |
| Participating Actors | | | Cart, Authenticator |
| Preconditions | | | There is at least one item in cart  and displaying list of cart items with editable quantity |
| Postconditions | | | The modified quantity of the item is stored into the data source |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Orderer changes quantity value of an item | |
| <- | 2. | System asks if the orderer is logged in to Authenticator | |
| <- | 3. | System requests to Cart to update the quantity of the item in data source | |
| Flow of Events for Extensions(Alternate Scenarios): | | | |
| 1a. Quantity is given as zero or negative | | | |
| <- | 1. | System sets the quantity value as 1 | |
|  | 2. | Same from step 2 | |

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| Use Case A-UC-4 | | | RemoveCartItem |
| Related Requirements | | | REQ-8, REQ-27 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | Remove items in the cart |
| Participating Actors | | | Cart, Authenticator |
| Preconditions | | | There is at least one item in cart  and displaying list of cart items with remove button |
| Postconditions | | | Removed item is deleted from data source |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Orderer clicks remove button of an item | |
| <- | 2. | System asks if the orderer is logged in to Authenticator | |
| -> | 3. | System requests to Cart to delete the item from data source | |

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| Use Case A-UC-5 | | | Order |
| Related Requirements | | | REQ-6, REQ-9, REQ10, REQ-11,REQ-12, REQ-15, REQ-16, REQ-17, REQ-19, REQ-21, REQ-22, REQ-23, REQ-24, REQ-28 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | To order pizza |
| Participating Actors | | | System, Order List |
| Preconditions | | | There must be pizza in cart (UC-1 – Add Menu To Cart) |
| Postconditions | | | Orderer get order id |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Orderer clicks “move to order page” button from cart page | |
| <- | 2. | System shows the order page to orderer, if store is open | |
| -> | 3. | Orderer select receiving option (REQ-10) | |
|  | 4. | If Orderer select delivery option , Orderer fill in the address entry box | |
|  | 5.. | Orderer type extra requirements (REQ-6) | |
|  | 6. | Orderer type payment information (REQ-11, REQ-12) | |
|  | 7. | Orderer click “order complete” | |
|  | 8. | The system put the order in Order List | |
| <- | 9. | The system give order Id to orderer. (REQ-19) | |

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| Use Case A-UC-6 | | | View Order History |
| Related Requirements | | | REQ-20, REQ-49 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | To see the own order history |
| Participating Actors | | | System, Order List |
| Preconditions | | | Login |
| Postconditions | | |  |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Orderer click order history view button | |
| <- | 2. | The system displays the orderer’s order history to orderer | |

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| Use Case UC-7 | | | View Order Detail |
| Related Requirements | | | REQ-20, REQ-49 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | To see the detail of one order |
| Participating Actors | | | System |
| Preconditions | | |  |
| Postconditions | | |  |
| Flow of Events for Main Success Scenario: | | | |
|  | 1. | Orderer click “order detail” button | |
|  | 2. | Authenticate | |
| <- | 3. | The system show the order detail page | |
| Extends | | | |
| 2.1 | If Orderer is logged in | | |
| <- | 2.1.1 | The system displays order list of orderer | |
| -> | 2.1.2 | Orderer select an order | |
| 2.2 | If Orderer is not logged in | | |
| <- | 2.2.1 | The system displays the box where orderer type order id | |
| -> | 2.2.2 | Orderer type order id | |

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| Use Case A-UC-8 | | | Cancle Order |
| Related Requirements | | | REQ-20, REQ-25, REQ-49 |
| Initiating Actor | | | Orderer |
| Actor’s Goal | | | To cancle order |
| Participating Actors | | | System, Order list |
| Preconditions | | | UC-6, Before Clerk accept order |
| Postconditions | | |  |
| Flow of Events for Main Success Scenario: | | | |
| -> | 1. | Orderer move to order detail page | |
| <- | 2. | The system show the detail page to orderer | |
| -> | 3. | Orderer click “cancle” button | |
|  | 4. | If order is not accepted, The system cancle the order | |
| <- | 5. | The system displays the result of cancling order | |